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 TI Preparation of cellulase synergistic protector solution and its use in  
 treating **cellulose fiber**  
 IN Zhang, Mei; Zhang, Xiaoling; Liu, Ruiqiong; Tu, Zaorui  
 PA ~~Beijing Inst. of Textile Science, Peop. Rep. China~~  
 SO Faming Zhuanli Shenqing Gongkai Shuomingshu, 10 pp.  
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CLASS

PATENT NO.	CLASS	PATENT FAMILY CLASSIFICATION CODES
CN 1199116	ICM	D06M016-00

AB The protector is composed of 0.5-5.0 M alc. soln. 1-35, 0.2-1.5 M nonionic  
**surfactant** soln. 0.1-10.0, 0.05-1.0 M polysaccharide soln.  
 0.4-7.0, 0.5-1.0 M org. acid 0.05-2, and water to 100%. The protector may  
 contain 0.1-0.9 M inorg. salt 0.5-10%. The alc. is selected from ethanol,  
 ethylene glycol, glycerin, pentaerythritol, polyethylene glycol, and  
 sorbitol; the **surfactant** from Tween-20, polyoxyethylene alkyl  
 ether, polyoxyethylene aryl ether, polyoxyethylene alkyl ester,  
 polyoxyethylene aryl ester, polyoxyethylene alkylphenol ether, and  
 polyethylene glycol sorbitol laurate; the polysaccharide from  
 methylcellulose, ethylcellulose, hydroxymethylcellulose, lactose, and  
 sucrose; the org. acid from formic acid, acetic acid, propanoic acid, and  
 oxalic acid; and the inorg. salt from NaCl, NaOAc, Na formate, Na<sub>3</sub>PO<sub>4</sub>,  
 NaH<sub>2</sub>PO<sub>4</sub>, Na<sub>2</sub>HPO<sub>4</sub>, Ca formate, Ca(OAc)<sub>2</sub>, CaCl<sub>2</sub>, MgCl<sub>2</sub>, and Mg(OAc)<sub>2</sub>. The  
 cellulose type fiber is treated by soaking the fiber in the protector  
 soln. at 45-55.degree. and pH 4.5-5.5 for 30-90 min. The ratio of the  
 protector-**cellulose fiber** is 0.2-5:100.  
 ST cellulase protector prepn **cellulose fiber** treatmen